

MXP1039 PC/PV - V
MXP1040 PC/PV - V
MXP1041 PC/PV - V
MXP1000 PC/PV - V

Visible Enhanced Photo Detectors

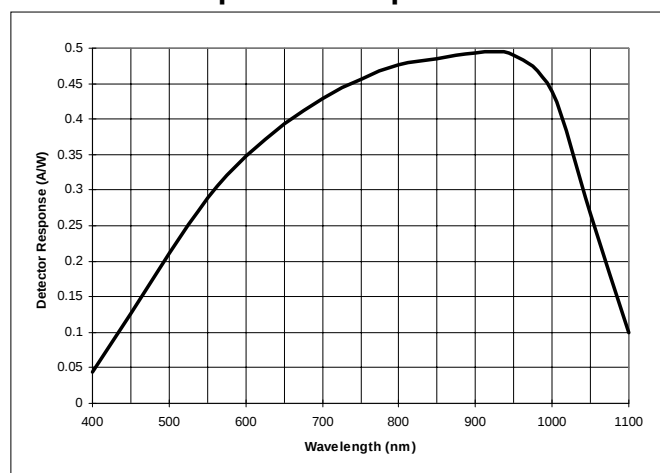
Features

- Low Dark Current
- Low Noise
- High Break Down Voltage
- Fast Rise / Fall Time

Applications

- Oxymeters
- Baggage Scanners
- CT Scanners
- Laser Gyros
- Spectrometers

Spectral Response



Available in single cell, multi-cell, and array configurations.

Electrical Characteristics @ 25°C

PV

DEVICE #	ACTIVE AREA		R	C _J	R _{SH}	NEP	T _R
	mm ²	Dia. Inch	A/W	pF	MOhms	W/(Hz) ^{1/2}	0V/650nm 50Ohm Load ns
MXP1039 PV-V	1.0	0.044	0.4	150	5,000	5 × 10 ⁻¹⁵	20
MXP1040 PV-V	5.1	0.100	0.4	550	500	2 × 10 ⁻¹⁴	100
MXP1041 PV-V	100	0.444	0.4	11,000	50	1 × 10 ⁻¹³	1500
MXP1000 PV-V	1.8	0.1 × 0.028	0.4	275	2,500	1 × 10 ⁻¹⁴	35

PHOTOVOLTAIC

PC

DEVICE #	ACTIVE AREA		R		ID			V _B	C _J			NEP	T _R	
	mm ²	Dia. Inch	650nm	PEAK	0.01V	-1.0V	-10V	min	0 V	-1 V	-10 V	W/(Hz) ^{1/2}	0 V	-10 V
MXP1039 PC-V	1.0	0.044	0.4	0.55	0.01	0.10	2.0	50	25	20	10	5 × 10 ⁻¹⁵	5	2
MXP1040 PC-V	5.1	0.100	0.4	0.55	0.10	1.00	10.0	50	100	85	25	2 × 10 ⁻¹⁴	15	5
MXP1041 PC-V	100	0.444	0.4	0.55	1.00	10.0	100	50	2,000	1,700	650	1 × 10 ⁻¹³	250	100
MXP1000 PC-V	1.8	0.1 × 0.028	0.4	0.55	0.02	0.02	5.0	50	50	40	20	1 × 10 ⁻¹⁴	10	4

PHOTOCONDUCTIVE